

Notice of Allowability

Application No.

09/988,704

Examiner

Sheela C. Chawan

Applicant(s)

NARITA ET AL.

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Nov 18, 2005.
2. ☒ The allowed claim(s) is/are 16,17,19,20-25,27-32, Renumbered as 1-15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892) 11/20/01, 7/22/05
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on Nov 18, 2005 has been entered.
Claims 1-15 and 18, 26 are cancelled.
Claims 16, 17, 19, 20- 25, 27- 32 are pending in the application and Renumbered as 1-15.

Response to Arguments

2. As pointed out by the applicant's Remark, see page 9 3rd paragraph, filed on Nov 18, 2005 with respect to claims 16, 17, 19, 20 - 25, 27- 32 have been fully considered and as a result amended claim 16, 20, 23, 24, 29 and 32 is now indicated allowable, as they include allowable subject matter of the objected claims 18-23 and 26 (as pointed in the last office action mailed on 7/27/05).

Drawings

3. The Examiner has approved drawings filed on 11/20/01.

Reason For Allowance

4. The following is an examiner's statement of reasons for allowance:
Claims 16, 17, 19, 20- 25, 27- 32 are allowed. As pointed out by the applicant's Remark, see page 9 3rd paragraph, filed on Nov 18, 2005 with respect to claims 16, 17, 19, 20- 25, 27- 32 have been fully considered and as a result amended claim 16, 20, 23, 24, 29 and 32 is now indicated allowable, as they include allowable subject matter of the objected claims 18-23 and 26 (as pointed in the last office action mailed on 7/27/05).
The prior art of record Shibata (US. 6,193, 132) discloses a method of bonding a

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semiconductor chip. Shibata does not disclose or even suggest, "wherein when the first detection point deviates within a deviation area beyond a view field of the image pickup camera, said recognizing comprises detecting the first detection point by moving the view field of the image pickup camera in a serpentine manner in the X direction and the Y direction within the deviation area starting from a first point, the first point being one of four corners of the deviation area", as to Nishimaki reference is directed to a wire bonder and wire bonding method, in which an IC chip is supported on a bonding stage. A camera and a bonding head are connected to an X-Y table so that the X-Y table can move the camera and the bonding head as necessary. Nishimaki reference does not disclose or suggest "wherein when the first detection point deviates within a deviation area beyond a view field of the image pickup camera, said recognizing comprises detecting the first detection point by moving the view field of the image pickup camera in a serpentine manner in the X direction and the Y direction within the deviation area starting from a first point, the first point being one of four corners of the deviation area", as commonly included in each of the independent claim 16, 20, 23, 24, 29 and 32, the prior art of record fails to teach either singularly or in combination, fails to anticipate or render the above limitations obvious.


5. Any comments considered necessary by applicant must be submitted on later than the payment of the issue fee and to avoid processing delays should preferably accompany the issue fee. Such submissions should be clearly labeled, comments on statement of reasons for allowance.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela C Chawan whose telephone number is. 571-272-7446. The examiner can normally be reached on Monday - Thursday 7.30 - 6.00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Sheela Chawan
Patent Examiner
Group Art Unit 2623
December 12, 2005